

Liaison Statement

Title:	Request for input about DLOA usage
Source:	Technical Director
To:	SIM WG
Cc:	SIMalliance
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1. Overall Description

As announced in November, GlobalPlatform has launched a new IOT initiative IoTopia. Building on GlobalPlatform's existing work to secure the IoT, IoTopia proposes a common framework for standardizing the design, certification, deployment and management of IoT devices. IoTopia device security will be testable and meet vertical market requirements by building upon the following four foundational pillars:

- secure by design;
- device intent;
- autonomous, scalable and secure onboarding;
- and device life-cycle management.

2. Device Intent and MUD file repository

In order to segment the network, during the connection phase the back end should discover the IoT device and answer to question such as: What is this thing? Who is responsible for it? How do I protect it and my business? Is it behaving as it should?

IoTopia leverages IETF's manufacturer usage descriptions (MUD) and uniform resource identifier (URI) to effectively manage device permissions and access on networks. (more about MUD file : <https://developer.cisco.com/docs/mud/#!what-is-mud>)

GlobalPlatform is looking to set up a MUD file server to create a central repository and allow IoT Device manufacturer to publish their device usage.

This GlobalPlatform MUD file repository service will be used by enterprise server implementing the mud manager. A MUD Manager is a service sitting in the network that receives the MUD URL, fetches a MUD file containing access requirements provided by a manufacturer, and creates Access Control Lists (ACLs) that can be installed on network equipment to allow that access.

MUD file are already included in national IoT framework such as NIST SP 1800-15.

FYI, these usage data are needed during the device on boarding and will be extended by the Attestation APIs (to be published in Q1/2020) that will be used by applications after on boarding.

3. Request to GSMA : Extending to DLOA registrar

In essence, DLOA is similar of MUD file. Used during the discovery phase, DLOA requires a URI store within the device to get access to information related to certification

GlobalPlatform would like to understand if GSMA plan to use DLOA during the on-boarding phase of a device and if a central repository of DLOA will be useful for the eSIM deployment.

In the case of usage, GlobalPlatform will be interested to collaborate with GSMA to better understand the specific constraint and requirements that such central repository should answer.

Looking forward fruitful collaboration with GSMA on eSIM deployment.